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Snow Surveys and Water Supply Forecasts

for

Rio Grande Drainage Basin

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U. S. DEPARTMENT OF AGRICULTURE



SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
COLORADO AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the U. S. Forest Service, National Park Service, State Engineers of Colorado and New Mexico and other Federal, State and local organizations.

AS OF

APR. 1, 1954

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge
River Forecast Center
U. S. Weather Bureau
712 Federal Office Building
Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office listed below:

Meteorologist in Charge..... Weather Bureau Airport Station Albuquerque, N. Mex.	Pecos River in N. Mex.; Rio Grande and tributaries at and above Elephant Butte Dam, N. Mex.

Rio Grande

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

FOR

RIO GRANDE BASIN

Issued

April 9, 1954

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WATER SUPPLY OUTLOOK
RIO GRANDE AND CANADIAN DRAINAGE BASINS
APRIL 1, 1954

The water supply outlook for the Rio Grande in Colorado and New Mexico is for well below normal stream flow during the 1954 season. There was material improvement in snow cover on the watershed during March with average snow cover about 80 percent of normal in Colorado and less in New Mexico. The most probable flow of the Rio Grande in San Luis Valley is 65 to 75 percent of normal and less in New Mexico. Soil moisture conditions are fair in San Luis valley and poor along the Rio Grande in New Mexico.

There was a substantial increase in snow cover at high elevations on the Rio Grande drainage in Colorado and northern New Mexico during March. Snow accumulation to April 1 is about 80 percent of normal at higher elevations. However, at medium and lower elevations precipitation has been extremely deficient. Summer flow of the Rio Grande and its tributaries in San Luis valley is expected to range from 65 to 75 percent of the past ten year average which is well below the average for the period of record. Soil moisture conditions in the valley are reported as fair to poor. Storage in irrigation reservoirs is much less than for April 1, 1953 and the past ten year average. Current stream flow is below normal. The water supply outlook in San Luis valley is relatively poor but slightly better than for the years 1950, 1951 and 1953.

Although, there has been improvement during March, the water supply outlook for the Rio Grande in New Mexico is poor. Net snow water content in the mountains is above March 1 but still well below normal. The summer flow of the Rio Grande above the middle Rio Grande valley is expected to be about 45 percent of normal which is slightly more than for the summer of 1953. El Vado Reservoir is nearly empty and peak flow storage will be limited. Stream flow is below average. Soils at both mountain and valley elevations are dry.

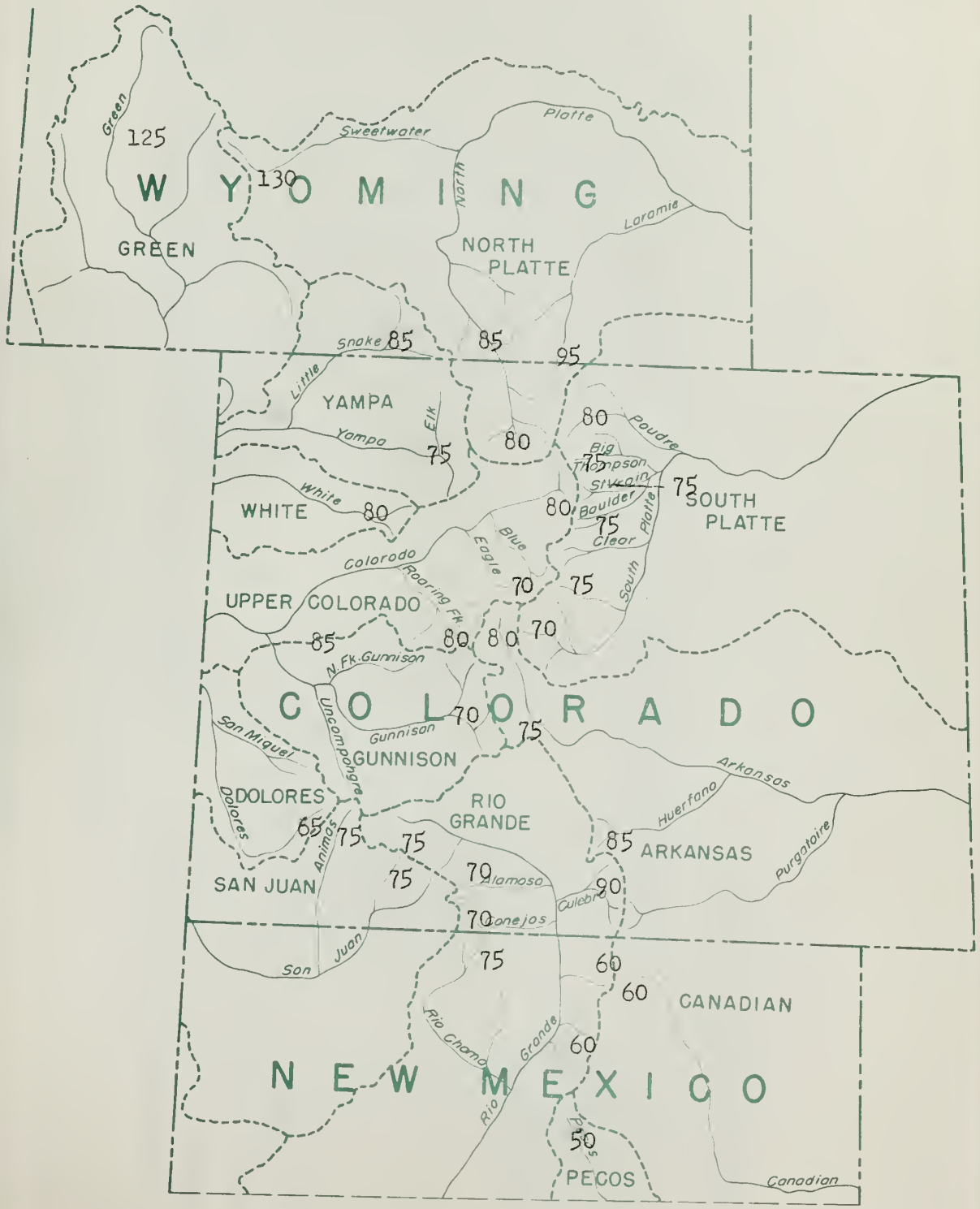
Storage in Elephant Butte and Caballo Reservoirs totals 175,000 acre-feet as compared to 420,000 on April 1, 1953. This is about 12 percent of the past 10 year average. The most probable inflow is expected to be about 30 percent of the 1942-51 period for April through September. This ten-year average is much less than for the long term record of stream flow. Soils in irrigated areas along the Rio Grande in southern New Mexico and western Texas are extremely dry.

On the Carlsbad project on the Pecos River soils are extremely dry. Storage in Alamogordo and Mc Millan Reservoirs is about 50 percent of average.

Snow cover on Canadian River tributaries is about 60 percent of normal. Mountain soil moisture is somewhat better than elsewhere in this area. Net storage in Conchas Reservoir is 166,000 acre-feet. Soil moisture conditions are poor. Stream flow is below average.

WATER CONTENT OF SNOW ON THE WATERSHEDS OF PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal
April 1, 1954



SNOW SURVEYS AND IRRIGATION WATER FORECASTS
RIO GRANDE BASIN

STATUS OF RESERVOIR STORAGE, April 1, 1954

STREAM	RESERVOIR	USABLE CAPACITY 1000 A.F.	1,000 A.F. Storage, April 1				
			1954	1953	1952	1951	10-yr. Avg. 1942-51
RIO GRANDE	Rio Grande	45.0	7.0	17.6	6.8	5.1	18.6
	Santa Maria	45.0	2.8	9.9	2.7	2.9	11.8
	Sanchez	103.0	4.3	6.1	5.4	4.5	14.3
	Terrace	17.7	1.6	4.9	2.3	1.8	3.7
	Continental	26.7	5.8	6.3	5.0	5.0	10.1
	Platoro	60.0	0.0	0.0	0.0	--	--
	Elephant Butte	2273.7	142.5	281.0	19.1	252.7	929.2
	Caballo	356.0	31.6	139.4	78.1	152.3	233.2
CHAMA RIVER	El Vado	226.0	3.5	0.0	0.0	5.1	48.3
CANADIAN RIVER	Conchas	370.2	166.2	173.4	207.5	281.3	323.4
PECOS RIVER	Alamogordo	148.0	34.5	39.0	31.0	81.0	61.8
	McMillan-Avalon	45.0	4.8	4.0	3.0	10.9	14.2

*Some for shorter periods

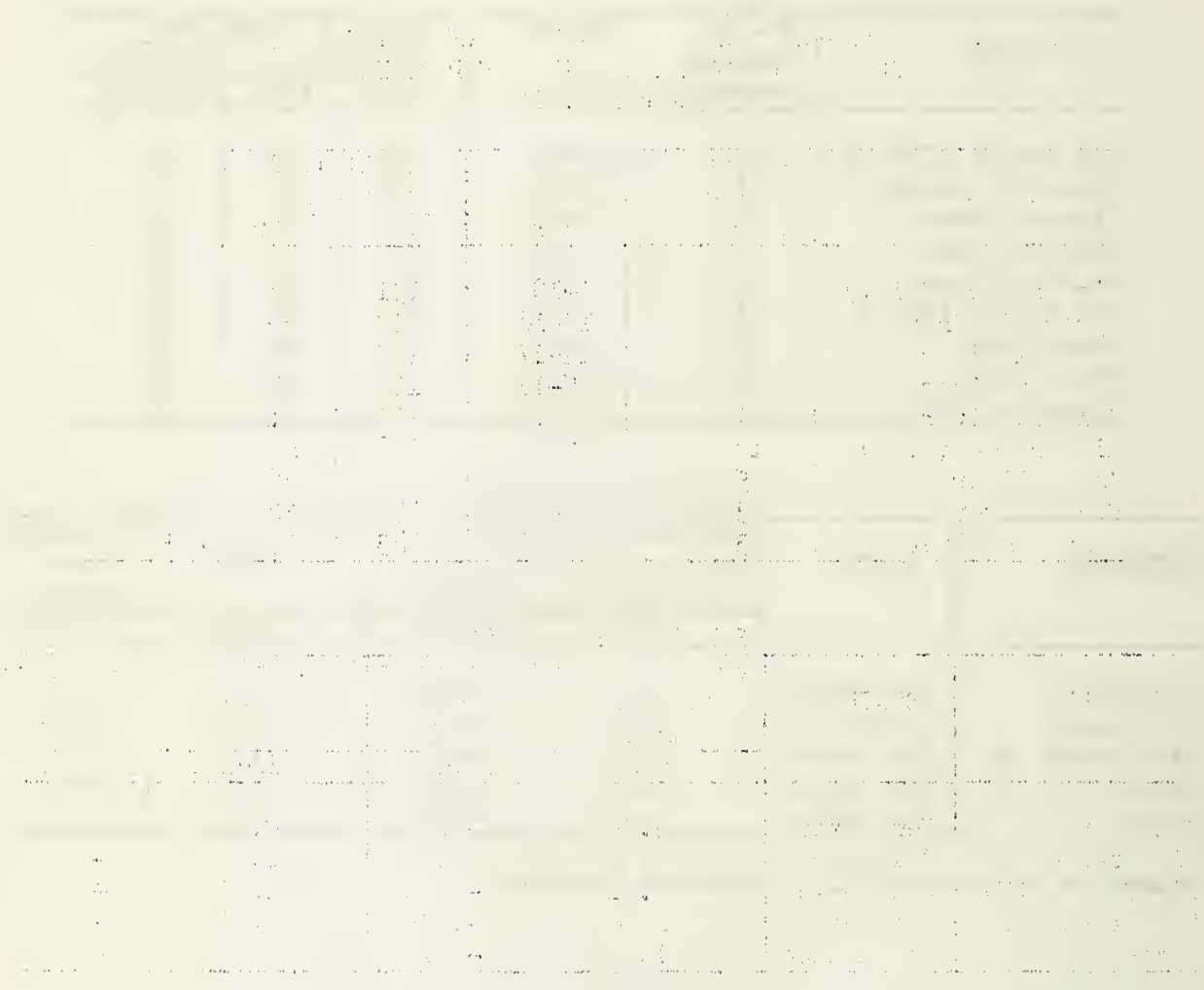
RIO GRANDE DRAINAGE BASIN SUMMARY OF APRIL 1 SNOW SURVEYS AND COMPARISON OF DATA WITH PREVIOUS YEARS
April 1, 1954

WATERSHEDS	No. of Courses Averaged	Years of Record	April 1, 1954 Water Contents as Percent of		
			1953	1952	Average
Rio Grande (Colo.)	18	5-18	131	38	69
Upper Rio Grande	3	15-18	133	39	73
Alamosa River	2	14-17	155	34	67
Conejos River	5	5-18	126	37	64
Culebra River	1	14	130	41	90
Rio Grande (N.M.)	13	4-17	148	44	70
Chama River	5	4-18	116	46	64
Pecos River	3	12-17	155	32	50
Canadian River	3	12-17	143	37	58

PRECIPITATION DATA

WATERSHED	STATE	Precipitation* October 1 to March 31	Departure from Normal	Precipitation March	Departure from Normal
		Inches	Inches	Inches	Inches
Canadian	New Mexico	4.25	-0.46	0.43	-0.45
Rio Grande	Colorado	2.94	-0.15	0.23	-0.19
Rio Grande (N)	New Mexico	5.81	-0.40	1.91	+0.51
Rio Grande (S)	New Mexico	1.20	-1.75	0.13	-0.25
Pecos	New Mexico	1.54	-2.17	.00	-0.53

* Average of Selected High Elevation Stations



RIO GRANDE DRAINAGE BASIN

STREAM FLOW FORECASTS, April 1, 1954

BASIN AND STREAM	April-September, Incl., Streamflow, Acre Feet				
	Forecast 1954	% of 10 yr Ave.	Measured Runoff 1952	1951	10 year Avg. 1942-1951
RIO GRANDE					
South Fork at South Fork	90,000	69	207,100	64,000	131,000
Rio Grande at Del Norte	350,000	64	751,000	252,000	549,000
Alamosa above Terrace Res.	55,000	75	121,000	36,000	72,900
Conejos at Mogote	165,000	82	356,000	107,000	200,200
Culebra at San Luis	27,000	100	33,000	11,000	27,000
Rio Chama at Park View	145,000	73	372,000	86,000	198,000
Costilla at Costilla	22,000	66	36,000	15,000	33,200
Embudo Creek at Dixon	30,000	66	63,000	6,000	45,600
Rio Grande at Otowi Bridge	375,000*	52	1,167,400	201,000	724,000
Rio Grande at San Marcial	225,000*	45		23,000	495,000
Pecos at Pecos	25,000	46	74,000	25,000	54,000

*Including change in storage in El Vado Res.

RIO GRANDE DRAINAGE SNOW SURVEYS
April 1, 1954

Drainage Basin and Snow Course	No. and State	Elev.	Snow Cover Measurements						
			1954			Past Record			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.) 1953	1952	Average	Years of Record
RIO GRANDE IN COLORADO									
Wolf Creek Pass	26 Colo.	12000	3/30	80.3	24.2	18.3	55.3	30.8	18
Upper Rio Grande	27 "	350	3/27	20.6	4.8	3.8	14.7	7.6	16
Silver Lakes	47 "	600	3/31	9.4	3.0	1.2	14.5	6.0	17
River Springs	49 "	9300	3/31	12.4	3.5	1.9	19.4	7.6	17
LaVeta Pass #2	74 "	9300	3/31	22.0	7.7	5.7	17.6	8.4	18
Summitville	76 "	11500	4/2	60.9	14.9	10.4	38.9	20.9	14
Cumbres Pass #2	77 "	10000	4/2	40.0	13.2	17.6	24.4	24.0	18
Santa Maria	80 "	9700	4/1	6.0	2.1	1.2	10.0	4.5	15
Culebra	82 "	10000	4/1	34.6	10.0	7.7	24.1	11.1	14
Ft. Garland	84 "	8200	4/2	0.0	0.0	0.0	3.5	2.5	14
Platoro	108 "	9950	4/1	50.5	13.5	8.8	38.3	21.3	5
West Conejos	109 "	9450	4/2	22.6	6.8	2.7	19.4	9.3	5
La Manga	110 "	10100	4/3	64.9	18.7	13.1	48.3	25.0	5
Pyramid	122 "	10300	4/1	29.0	7.8	6.1	18.4	11.1	5
Spr. Creek Pass	123 "	10900	4/1	30.0	7.6	5.2	16.2	11.1	5
Pool Table Mt.	124 "	10000	3/31	17.0	5.3	3.6	10.4	6.5	5
Lake Humphreys	125 "	9300	3/31	8.4	2.6	3.5	12.1	7.3	5
Cochetopa Pass	126 "	10000	3/31	11.6	3.3	4.0	8.1	5.2	5
Howardville	151 "	9800	3/31	32.4	10.0	6.7	20.3	--	3
Red Mt. Pass	153 "	11000	4/1	83.5	25.9	23.3	44.0	--	3
Porcupine	154 "	10400	3/30	39.2	10.1	6.2	19.8	--	3
Wolf Creek Summit	155 "	11000	3/30	81.3	25.0	17.9	52.1	--	3
UPPER RIO GRANDE									
Wolf Creek Pass	26 Colo.	10000	3/30	80.3	24.2	18.3	55.3	30.8	18
Upper Rio Grande	27 "	9350	3/27	20.6	4.8	3.8	14.7	7.6	16
Santa Maria	80 "	9700	4/1	6.0	2.1	1.2	10.0	4.5	15
ALAMOSA RIVER									
Silver Lakes	47 Colo.	9600	3/31	9.4	3.0	1.2	14.5	6.0	17
Summitville	76 "	11500	4/2	60.9	14.9	10.4	38.9	20.9	14
CONEJOS RIVER									
River Springs	49 Colo.	9300	3/31	12.4	3.5	1.9	19.4	7.6	17
Sumbres Pass #2	77 "	10000	4/2	40.0	13.2	17.6	24.4	24.0	18
Platoro	108 "	9950	4/1	50.5	13.5	8.8	38.3	21.3	5
West Conejos	109 "	9450	4/2	22.6	6.8	2.7	19.4	9.3	5
La Manga	110 "	10100	4/3	64.9	18.7	13.1	48.3	25.0	5
CULEBRA RIVER									
Culebra	82 Colo.	10000	4/1	34.6	10.0	7.7	24.1	11.1	14

RIO GRANDE DRAINAGE SNOW SURVEYS
April 1, 1954

Drainage Basin and Snow Course	No. and State	Elev.	Snow Cover Measurements 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
			RIO GRANDE IN NEW MEXICO						
CHAMA RIVER									
Cumbres Pass #2	77 Colo.	10000	4/2	40.0	13.2	17.6	24.4	24.0	18
Pay Role	15 N.M.	9700	3/31	22.9	5.6	2.4	16.5	9.2	14
Chama Divide	17 "	7750	4/1	1.0	0.4	0.0	0.0	2.5	14
Chamita	18 "	8500	4/1	26.2	8.3	4.4	18.0	9.1	12
Bateman	29 "	9300	4/1	41.3	8.6	6.5	19.0	11.8	4
PECOS RIVER									
Aspen Grove*	4 "	9500	3/28	5.0	1.8	1.7	4.3	3.2	17
Panchela	20 "	9200	3/28	0.0	0.0	0.4	3.9	2.0	17
Big Tesuque*	21 "	9000	3/28	9.2	3.4	1.3	7.7	5.1	12
RIO GRANDE									
Red River	1 "	9500	3/30	13.8	4.6	1.9	10.9	7.8	17
Taos Canyon	2 "	9000	4/1	6.9	2.6	2.3	9.0	6.7	15
Aspen Grove	4 "	9100	3/28	5.0	1.8	1.7	4.3	3.2	17
Tres Ritos	12 "	9000	3/30	5.4	1.2	0.6	8.4	4.9	16
Pay Role	15 "	9700	3/31	22.9	5.6	2.4	16.5	9.2	14
Chama Divide	17 "	7750	4/1	1.0	0.4	0.0	0.0	2.5	14
Chamita	18 "	8500	4/1	26.2	8.3	4.4	18.0	9.1	12
Cordova	19 "	10100	4/1	31.7	8.8	6.3	18.3	12.2	12
Pancheula #2	20 "	8300	3/28	0.0	0.0	0.4	3.9	2.0	17
Big Tesuque	21 "	10000	3/28	9.2	3.4	1.3	7.7	5.1	12
Elk Cabin	24 "	8350	--	--	--	0.0	3.2	1.1	5
Rio En Medio	26 "	10400	3/28	21.9	6.8	8.6	9.2	5.3	4
Quemazon	28 "	9500	3/29	28.5	7.7	3.8	10.0	5.4	4
Bateman	29 "	9300	4/1	41.3	8.6	6.5	19.0	11.8	4
Fenton Hill	31 "	8900	3/28	3.5	0.8	1.5	3.0		3
			CANADIAN RIVER						
Hematite Park	9 N.M.	9500	3/29	8.8	2.8	2.1	8.2	5.1	17
Tres Ritos*	12 "	9000	3/30	5.4	1.2	0.6	8.4	4.9	16
Cordova*	19 "	10100	4/1	31.7	8.8	6.3	18.3	12.2	12

*On adjacent drainage

LIST AND LOCATION OF SNOW COURSES

Platte, Arkansas, Colorado
and Rio Grande Drainages

No.		Name	Sec.	Twp.	Rge.	Elev.
		Cheyenne				
1	SD	Upper Spearfish	21	3N	1E	6500
		North Platte				
7	C	Park View	24	5N	78W	9200
8	C	Columbine	21	5N	82W	9300
156	C	Northgate	7	11N	79W	8500
7	W	Bott e Creek	24	14N	85W	8200
8	W	Webber Spring	27	14N	85W	9000
9	W	Old Battle	29	14N	85W	9800
37	W	North French Creek	27	16N	80W	10200
38	W	North Barrett Creek	30	16N	80W	9400
39	W	Ryan Park	34	16N	81W	8400
67	W	Spring Creek	32	15N	85W	9000
68	W	Albany	18	14N	78W	9400
71	W	Pearl	18	12N	82W	8900
		Laramie				
88	C	Roach	5	10N	77W	9800
111	C	McIntyre	35	10N	76W	9 00
3	W	Brooklyn Lake	11	16N	78W	10200
11	W	Foxpark	21	13N	78W	9200
55	W	Libby Lodge	29	16N	78W	8700
56	W	Hairpin Turn	24	16N	79W	9500
		Sweetwater				
29	W	Grannier Meadows	19	30N	100W	9000
47	W	South Pass	13	30N	101W	9000
57	W	Larson Creek	12	30N	105W	9000
		Laramie Peaks District				
39	W	La Bonte	11	27N	74W	8450
70	W	Boxelder	31	30N	75W	9000
		South Platte				
1	C	Cameron Pass	2	6N	78W	10300
2	C	Chambers Lake	6	7N	75W	9000
3	C	Big South	33	8N	75W	8600
5	C	East Portal	2	2S	74W	9400
14	C	Hoosier Pass	13	8S	78W	11400
15	C	Fairplay	33	9S	77W	10000
41	C	Wild Basin	24	3N	74W	10000
50	C	Deadman Hill	26	10N	75W	10200
60	C	University Camp	26	1N	75W	10300
61	C	Loveland Pass	27	4S	76W	10600
68	C	Hour Glass Lake	18	7N	78W	9500
83	C	Jefferson Creek	14	7S	76W	10100
95	C	Hidden Valley	23	5N	75W	9550
115	C	Deer Ridge	19	5N	76W	9050
116	C	Copeland Lake	21	3N	76W	8600
117	C	Empire	21	3S	75W	9650
118	C	Geneva Park	18	6S	74W	9750
120	C	Antero	1	13S	77W	9200
128	C	Red Feather	26	10N	74W	9000
133	C	Moffatt	2	2S	74W	9400
134	C	Ward	1	1N	75W	9500
137	C	Berthoud Falls	16	3S	75W	10500
148	C	Longs Peak	32	4N	75W	10500
156	C	Lost Lake	32	8N	75W	9300
34	C	Pole Mountain	35	15N	72W	8700
		Arkansas River				
19	C	Tennessee Pass	21	8S	80W	10200
21	C	Twin Lakes Tunnel	22	11S	82W	10500
72	C	Wolskey Creek		37.2N	105W	10300
74	C	La Veta Pass	22	28S	70W	9300
78	C	Four Mile Park	23	11S	81W	9700
81	C	Blue Lakes	30	31S	69W	10000
92	C	Monarch Pass	16	49N	6E	10500
119	C	Saint Elmo	31	15S	80W	10600
121	C	Timberline	8	9S	81W	11100
165	C	Cooper Hill	2	8S	80W	10600
166	C	East Fork	9	8S	79W	10700

No.		Name	Sec.	Twp.	Rge.	Elev.
		Upper Colorado				
12	C	Phantom Valley	7	5N	75W	9300
16	C	Berthoud Pass	35	2S	75W	9700
37	C	M. P. Camp Ground	16	3S	77W	9000
44	C	Fiddler Gulch	1	8S	80W	11000
59	C	Lulu	25	6N	76W	10200
64	C	N. Inlet Grand Lake	26	4N	75W	9000
65	C	Lake Irene	8	5N	75W	10500
69	C	Arrow	34	1S	75W	9500
70	C	Lapland	16	2S	76W	9500
79	C	Fr mont Pass	2	8S	76W	11400
91	C	Lynx Pass	27	2N	88W	9100
96	C	Shrine Pass	15	6S	79W	10500
97	C	Grizzly Peak	2	5S	76W	11250
102	C	Glen-Mar Ranch	31	2S	77W	8850
106	C	Monarch Lake	30	2N	74W	8500
112	C	Granby	11	2N	77W	8700
127	C	Grand Lake	36	4N	75W	8600
138	C	Berthoud Summit	10	2S	75W	11300
139	C	Frazer View	34	2S	75W	10600
143	C	Gore Pass	2	1N	82W	8900
146	C	Frisoo	16	6S	78W	9300
147	C	Snake River	9	5S	76W	9700
158	C	Summit Ranch	8	4S	78W	10000
163	C	Vail Pass	28	5S	79W	10000
167	C	Kokomo	23	7S	79W	10600
168	C	Pando	10	7S	80W	9500
		Roaring Fork				
33	C	Ind. Pass Tunnel	30	11S	82W	10700
54	C	North Lost Trail	20	11S	87W	9200
45	C	Nast	1	9S	83W	8700
100	C	Ivanhoe	12	9S	82W	10400
144	C	Ruby	1	12S	83W	11500
		Yampa				
6	C	Dry Lake	26	7N	84W	8500
9	C	Elk River	21	5N	82W	9500
140	C	Routt Line	13	5N	86W	9700
141	C	Rabbit Ears	30	5N	80W	9550
142	C	Yampa View	21	5N	84W	8500
		White				
35	C	Burro Mountain	15	2S	91W	9000
36	C	Rio Blanco	28	1N	88W	8500
		Plateau Creek				
56	C	Mesa Lakes	35	11S	96W	10000
85	C	Trickle Divide	23	11S	94W	10000
		Gunnison River				
18	C	Crested Butte	22	13S	86W	9000
46	C	Park Cone	19	14S	82W	9700
53	C	Alexander Lake	2	12S	25W	10000
55	C	Snowshoe Mesa	14	13S	89W	7500
58	C	Ironton Park	29	43N	7W	9800
87	C	Park Reservoir	34	11S	94W	9500
89	C	Porphyry Creek	19	49N	6E	10800
101	C	Kannah Creek	5	12S	95W	10700
104	C	Lake City	13	43N	4W	10300
152	C	McClure Pass	1	11S	89W	9500
155	C	Red Mountain	13	42N	8W	11000
		San Juan				
29	C	Upper San Juan	10	37N	1E	10000
30	C	Silverton	10	41N	7W	9400
31	C	Cascade	12	3 N	9W	8850
135	C	La Plata	4	3 N	11W	9700
149	C	Spud Mountain	32	40N	8W	10700
150	C	Molas Lake	7	4 N	7W	10500
151	C	Howardville	15	41N	7W	9800
162	C	Mineral Creek	36	42N	8W	10 00

LIST AND LOCATION OF SNOW COURSES (CONTINUED)

No.		Name	Sec.	Twp.	Rge.	Elev.
		Dolores				
23	C	Rico	11	39N	11W	8700
24	C	Telluride	6	42N	8W	8600
25	C	Lizzard Head	24	41N	10W	10300
114	C	Trout Lake	8	41N	9W	9700
		Green				
23	W	Dutch Joe	33	31N	104W	8700
24	W	Mulligan Park	17	35N	108W	8900
25	W	Kendall R. S.	23	38N	110W	7900
26	W	Loomis Park	14	37W	111W	8500
27	W	Snyder Basin	15	29N	114W	8040
28	W	Piney La Barge	19	29N	114W	8820
		Arizona (Gila)				
11	NM	Frisco Divide	21	6S	20W	8000
14	NM	State Line	5	6S	21W	8000
22	NM	Taylor Creek	20	10S	10W	7850
23	NM	Inman	6	11S	10W	7800
1	A	Nutrioso	23	6N	30E	8500
2	A	Beaver Head	13	4N	30E	8000
3	A	Coronado Trail	26	5N	30E	8000
29	A	Rose Canyon	15	12S	16E	7300
30	A	Bear Wallow	6	12S	16E	8100
		Arizona (Salt)				
4	A	McNary	14	8N	23E	7200
5	A	Forest Dale	2	9N	21E	8000
6	A	Milk Ranch	28	8N	23E	7000
20	A	Pacheta				7800
21	A	Fort Apache	18	7N	27E	9000
22	A	Baldy	28	7N	27E	9000
23	A	Maverick Fork	13	6N	27E	9050
31	A	Workman Creek	33	6N	14E	5860
		Arizona (Little Colorado)				
12	A	Fort Valley	22	22N	6E	7350
13	A	Mormon Lake	13	18N	8E	7350
19	A	Mormon Mountain	14	18N	8E	7500
		Arizona (Verde)				
8	A	Camp Wood	3	16N	6W	5700
6	A	Antelope Park	29	19N	8E	7300
17	A	Casner Park	9	18N	8E	6930
8	A	Munds Park	7	18N	7E	6500

No.		Name	Sec.	Twp.	Rge.	Elev.
		Arizona (Williams)				
7	A	Iron Springs	22	14N	3W	6000
15	A	Willow Ranch	16	21N	11W	5000
		Arizona (Lower Colorado)				
9	A	Chalendar	27	22N	3E	7100
10	A	Grand Canyon	21	30N	4E	7500
11	A	Bright Angel	34	33N	4E	8400
		Rio Grande				
26	C	Wolf Creek	4	37N	2E	10000
27	C	Upper Rio Grande	13	40N	4W	9350
47	C	Silver Lakes	15	36N	5E	9600
49	C	River Springs	25	33N	6E	9300
76	C	Summitville	30	37N	4E	11500
77	C	Cumbres Pass	17	32N	5E	10000
80	C	Santa Maria	8	41N	2W	9700
82	C	Culebra		37.2N	105.2W	10000
84	C	Fort Garland	13	29N	72W	8200
108	C	Platoro	22	36N	4W	9950
109	C	West Conejos	25	35N	4E	9450
110	C	La Manga	11	33N	5E	10000
122	C	Pyramid	26	41N	6W	10300
123	C	Spring Creek Pass	2	42N	3W	10900
124	C	Pool Table Mt.	19	41N	2E	10000
125	C	Lake Humphrey	32	40N	1E	9300
126	C	Coohetopa Pass	12	45N	3E	10000
154	C	Porcupine	2	41N	3W	10400
155	C	Wolf Creek Summit	6	37N	2E	11000
1	NM	Red River	29	28N	15E	9500
2	NM	Taos Canyon	10	25N	15E	9000
4	NM	Aspen Grove	12	18N	10E	9100
9	NM	Hematite Park	8	28N	15E	9500
12	NM	Tres Ritos	23	22N	13E	9000
15	NM	Payrole	16	28N	7E	9700
17	NM	Chama Divide		36.9N	106.7W	7750
18	NM	Chamita		36.9N	106.7W	8500
19	NM	Cordova	22	22N	13E	10100
20	NM	Panchuela	27	19N	12E	8300
21	NM	Big Tesuque	17	18N	11E	10000
24	NM	Elk Cabin	8	18N	11E	8250
26	NM	Rio En Medio	8	18N	11E	10400
28	NM	Quemazon	34	20N	5E	9300
29	NM	Bateman	5	26N	6E	9300
31	NM	Fenton Hill	18	19N	3W	8900

SD - South Dakota; C - Colorado; W - Wyoming; A - Arizona; NM - New Mexico

Federal - State - Private

COOPERATIVE SNOW SURVEYS

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Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
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"WATER IS THE WEST'S GREATEST RESOURCE"